

# Groundwater Recharge Program

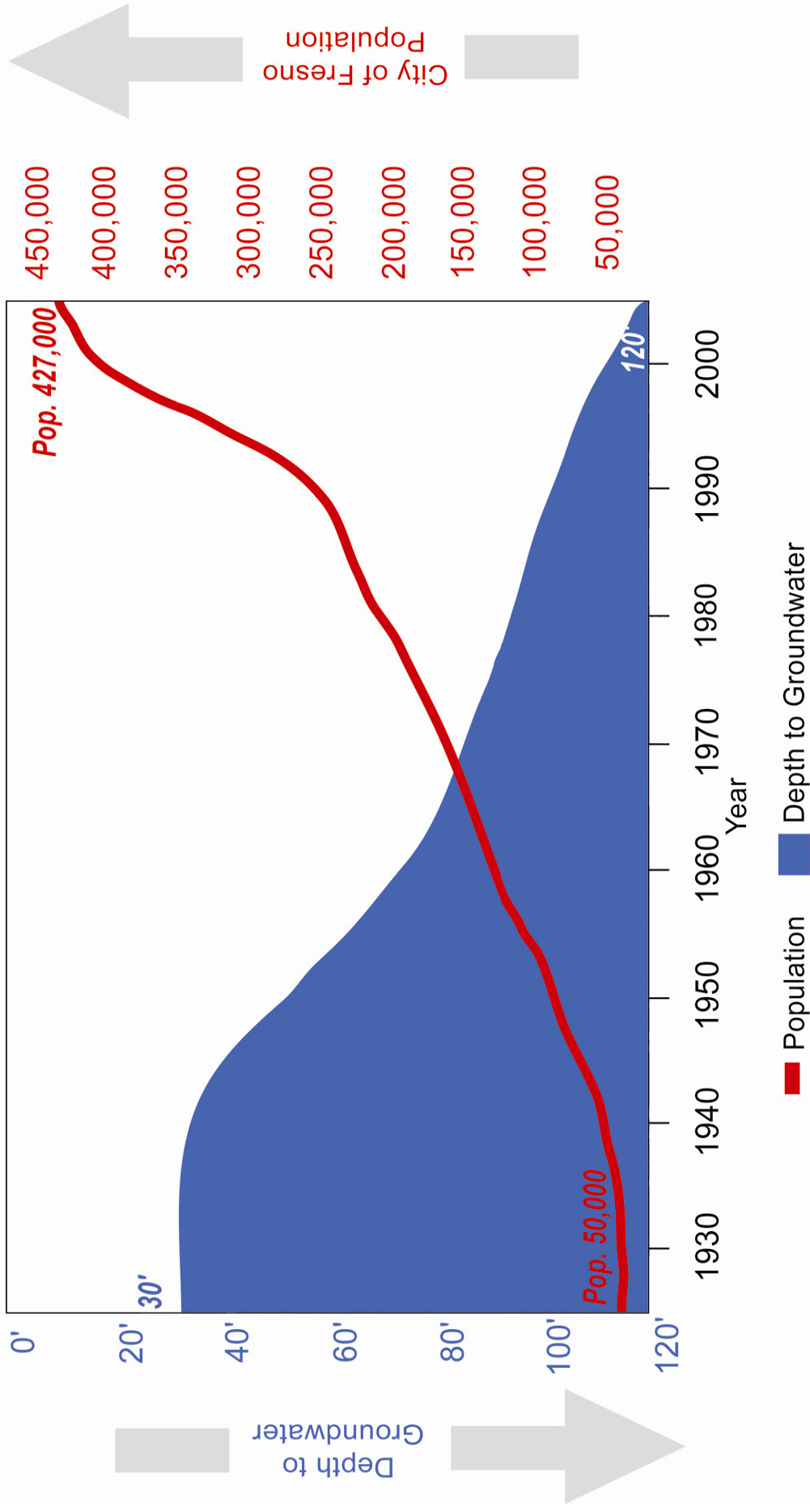


On average, 27,000 acre feet is transferred from Fresno Irrigation District canals into flood control basins and infiltrated into the aquifer each year.

That's 8.8 Billion Gallons

## Population Growth vs. Depth to Groundwater

As our population grows, the demand on groundwater supplies has increased.  
Since 1930 the average depth to groundwater has dropped dramatically.



# Water Resource Management

- 928 acres of land managed as stormwater retention basins have secondary uses as groundwater recharge facilities
- 81 basin facilities have recharge uses
- City of Fresno Leaky Acres Facility 250 acres
- City of Clovis Recharge Facility 85 acres

# Stormwater Quality

- District's program is regulated by EPA and the Regional Water Quality Control Board
- New Storm Water Discharge permit application submitted to EPA in September 2005
- Permit application being negotiated with EPA and Regional Board

# Storm Water Quality Management

## ➤ Key Accomplishments

- Monitoring of the San Joaquin River
- In-System monitoring program
- Basin soil management program
- Public Education Program ~  
*“It’s Just Beneath Your Feet”*
- Industrial Pollution Prevention
- Construction Pollution Prevention



# Construction And Development



# Recreation

- Leveraging Community Investment through Multi Use
- 22 fully landscaped parks
  - Oso de Oro Lake Park
  - Trolley Creek Park
  - River Park Little League
  - Clovis Park at Basin “S”
  - Len Ross Junior Golf Foundation
  - Future Clovis Nature Center

# Wildlife and Habitat Enhancement

- Migratory bird habitat
- Tree plantings and urban green space
- Basin soil maintenance rotation to promote “net benefit”



# Future Challenges

- Complete planned system for urban drainage and flood control
- Continue to respond to growth and the impact upon greater runoff with no increase in discharge capacity
- Protect property - cost effectively
- Specifically address urbanization above the Redbank and Fancher Creek flood protection features to maintain flood protection level

## Future Challenges (continued)

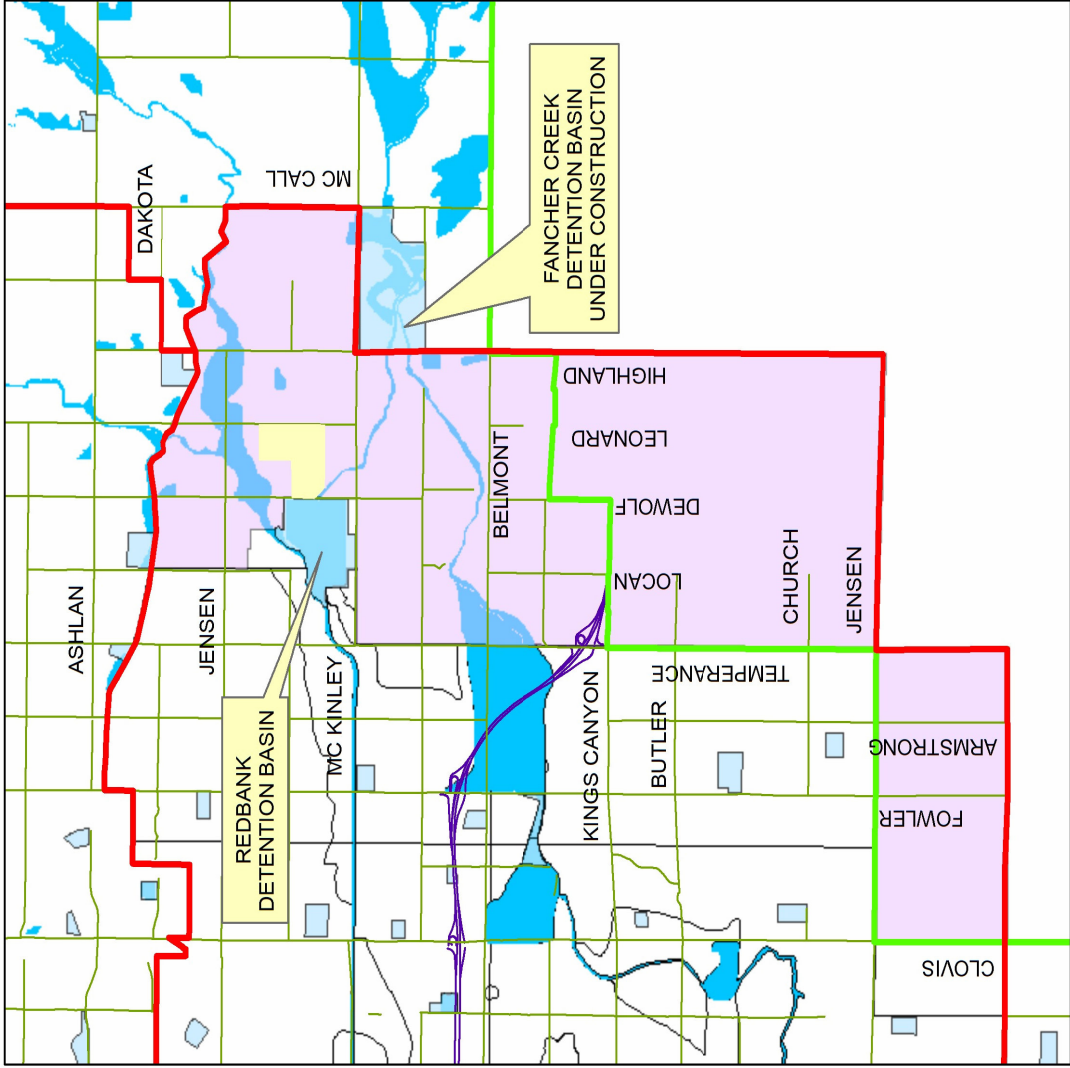
- Need upland flood control features to contain costs and minimize downstream channel size
- Need to expand secondary water management and recharge facilities to maximize public benefit

# PLANNING IN SEGA

- Joint planning effort with City
- Need to develop and adopt drainage plans
- Need to acquire land for basin facilities
- District has 2006 topographic and aerial mapping for the SEGA

## PLANNING IN SEGA (continued)

- Local drainage plans are developed such that the existing rural watershed remains intact
- Local drainage plans typically are developed such that the collection system routes drainage and storm flow to a single basin
- District service area needs to be expanded to include the SEGA (LAFCO)



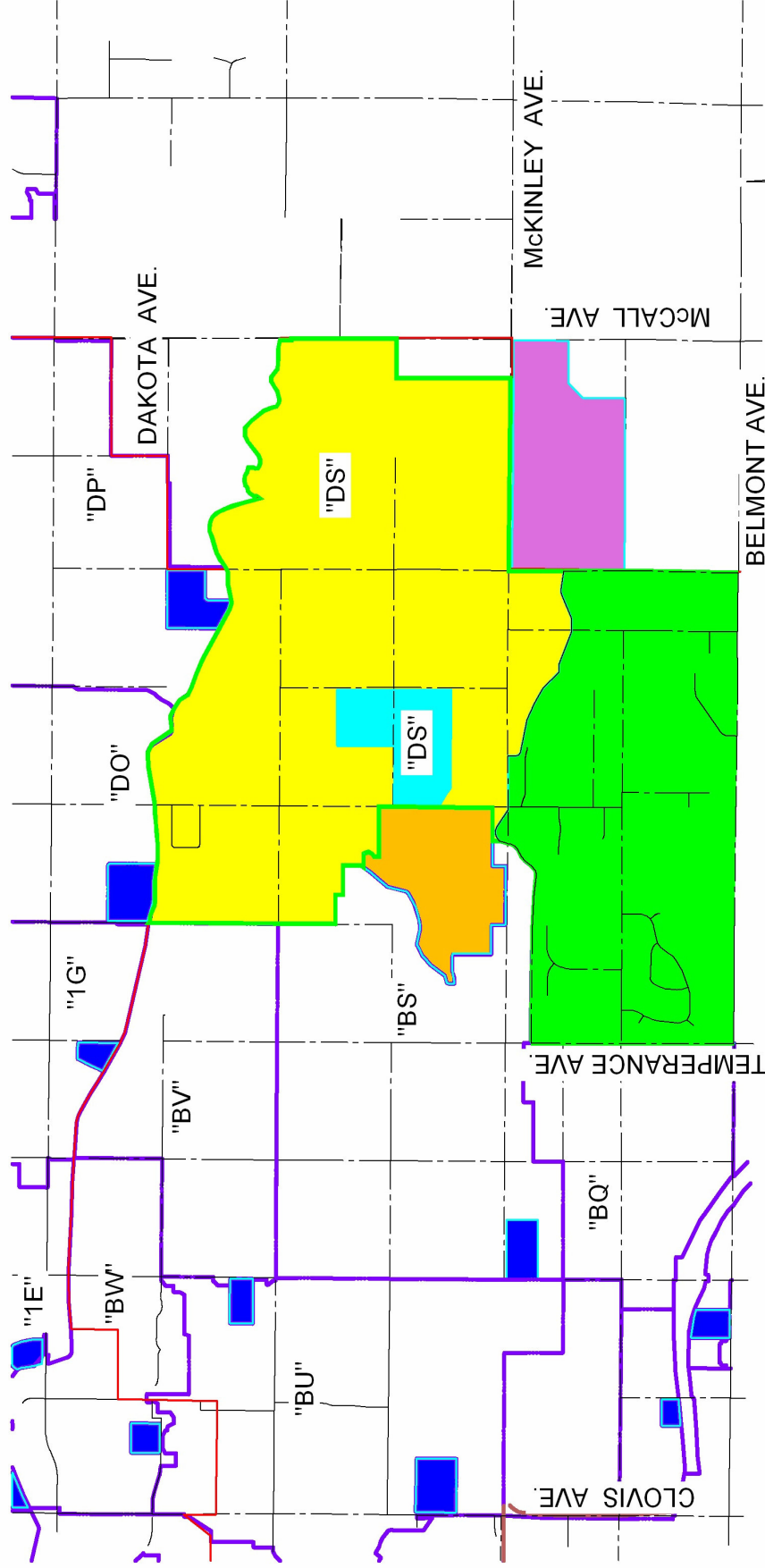
# FLOOD PLAIN MAPPING



## Legend

- South East Growth Area
- Historical Flooding Areas
- Existing Basin
- Proposed Basin "DS"
- City Sphere
- FMFCD Boundary





- SEGA Boundary
- Conceptual Basin Location and Preliminary System Layout Established (2 year collection system)
- SEGA Area Currently Being Developed To Accommodate 2/3 of the Annual Rainfall - Basin Location to be Based On Topographic Mapping and Existing Features
- Conceptual Basin Location
- Redbank Detention Basin
- Fancher Creek Detention Basin
- FMFCD Drainage Boundary
- City S-O-I
- Existing Urban Basin

SCALE = 1"=3500'



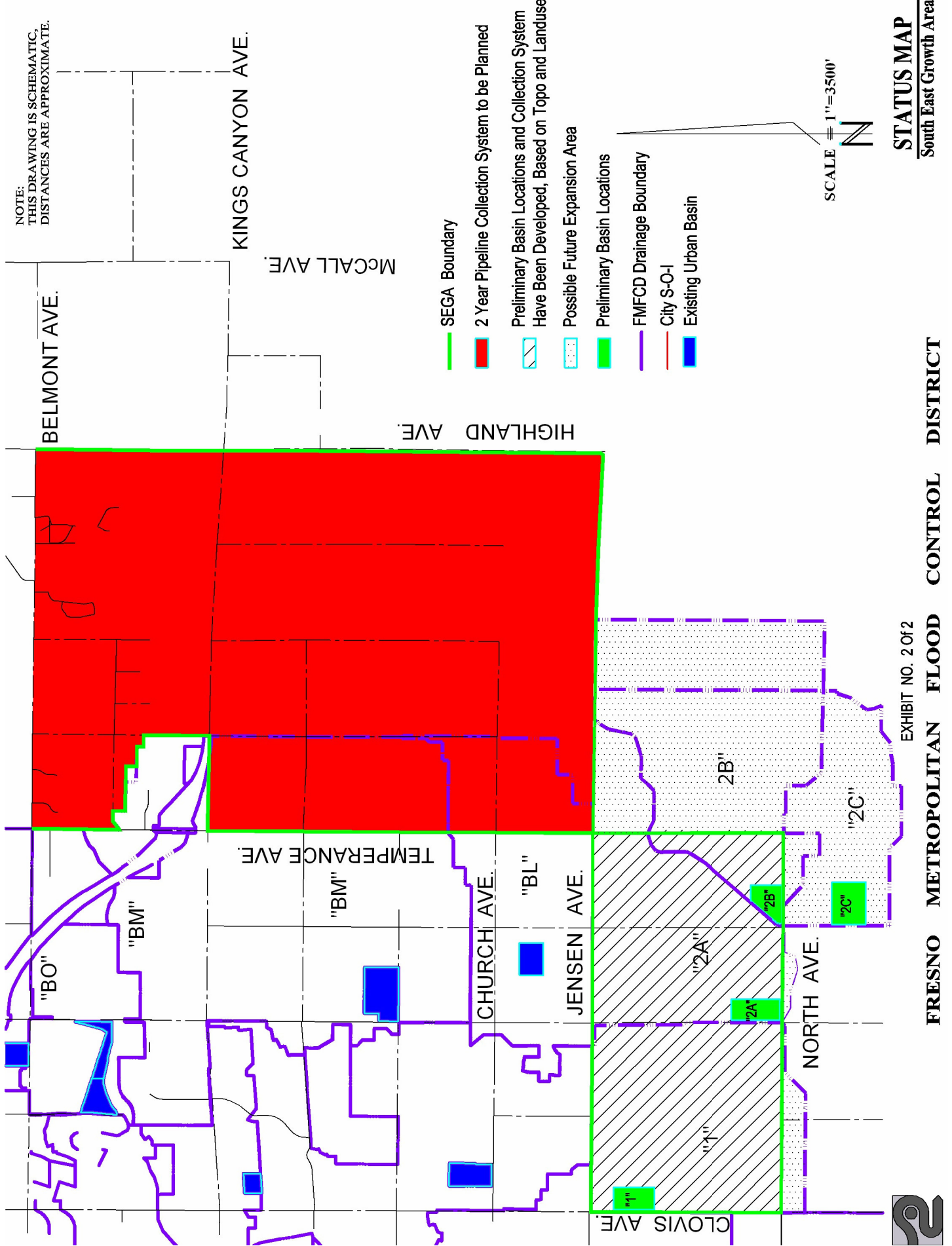
# **STATUS MAP** South East Growth Area

**CONTROL DISTRICT**

**FRESNO METROPOLITAN FLOOD CONTROL DISTRICT**

EXHIBIT NO. 1 OF 2

DRAWN BY: SE  
REVIEWED BY: RC  
DATE: 10/10/07  
DATE: 10/09/07



# CONTACT INFORMATION

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Or visit us at: [www.fresnofloodcontrol.org](http://www.fresnofloodcontrol.org)

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